

App. No. 10/055646
Office Action Dated February 19, 2004
Amendment Dated May 19, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claim 1 is amended.

Listing of Claims:

1. (Currently amended) A method of evaporating thin film used in organic electro-luminescent display, comprising steps of:

providing a display substrate;

providing a mask having a plurality of openings and placed below the display substrate;

providing a plane evaporation source placed below the mask, wherein the plane evaporation source has a plurality of evaporating material cells arranged in array which are respectively aligned to the openings of the mask; and

evaporating the evaporating material cells to deposit a plurality of thin films on predetermined regions of the display substrate.

2. (Original) The method according to claim 1, wherein the evaporating material cell is of organic electro-luminescent materials.

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3. (Original) The method according to claim 1, wherein the formation of the plane evaporation source comprises steps of:
- providing a metal plate;
 - providing at least one kind of evaporation source placed below the metal plate; and
 - evaporating the evaporation source to form the evaporating material cells on the metal plate.
4. (Original) The method according to claim 3, wherein the formation of the plane evaporation source further comprises a step of providing a mask which has a plurality of openings and is disposed between the metal plate and the evaporation source.
5. (Original) The method according to claim 3, wherein a plurality of types of evaporation sources are provided below the metal plate.
6. (Original) The method according to claim 3, wherein the metal plate is rotated during evaporation.
7. (Original) The method according to claim 3, wherein the back side of the metal plate comprises a plurality of supporting ribs.

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8. (Original) A method of evaporating thin film used in organic electro-luminescent display, comprising steps of:

providing a display substrate;

providing a mask having a plurality of openings and placed below the display substrate;

providing a first plane evaporation source placed below the mask, wherein the first plane evaporation source has a metal net and a plurality of first evaporating material cells which are respectively aligned to the openings of the mask;

providing a second plane evaporation source placed below the first plane evaporation source, wherein the second plane evaporation source has a metal plate and a plurality of second evaporating material cells which are respectively aligned to the openings of the mask; and

evaporating the first evaporating material cells and the second evaporating material cells to deposit a plurality of thin films on predetermined regions of the display substrate.

9. (Original) The method according to claim 8, wherein the first evaporating material cell and the second evaporating material cell are of organic electro-luminescent materials.

10. (Original) The method according to claim 8, wherein the formation of the first plane evaporation source comprises steps of:

providing the metal net;

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providing a first mask which has a plurality of first openings and is placed below the metal net;

providing at least one kind of first evaporation source which is placed below the first mask; and

evaporating the first evaporation source to form the first evaporating material cells on the metal net.

11. (Original) The method according to claim 10, wherein the metal net is rotated during evaporation.

12. (Original) The method according to claim 10, wherein the back side of the metal net comprises a plurality of supporting ribs.

13. (Original) The method according to claim 8, wherein the formation of the second plane evaporation source comprises steps of:

providing the metal plate;

providing a second mask which has a plurality of first openings and is placed below the metal plate;

providing at least one kind of second evaporation source which is placed below the second mask; and

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evaporating the second evaporation source to form the second evaporating material cells on the metal plate.

14. (Original) The method according to claim 13, wherein the metal plate is rotated during evaporation.

15. (Original) The method according to claim 13, wherein the back side of the metal plate comprises a plurality of supporting ribs.